

Chapter 3 The Biosphere

Chapter Vocabulary Review

Short Answer On the lines provided, define the following terms.

1. ecology _____

2. biosphere _____

3. species _____

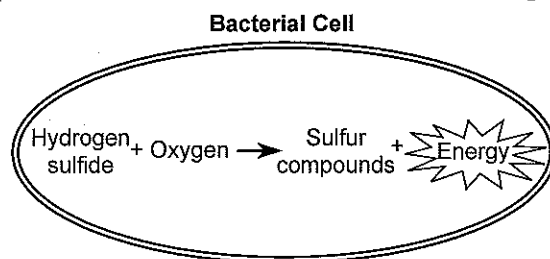
4. community _____

5. biome _____

6. autotroph _____

Multiple Choice On the lines provided, write the letter of the phrase or term that best answers each question.

- _____ 7. What are the products of photosynthesis?
 - a. water and energy
 - b. carbon dioxide and carbohydrates
 - c. water and sugars
 - d. oxygen and carbohydrates
- _____ 8. What process does the illustration below show?
 - a. photosynthesis
 - b. evaporation
 - c. chemosynthesis
 - d. transpiration



- _____ 9. Which of the following types of organisms obtain energy by eating only plants?
 - a. producers
 - b. herbivores
 - c. omnivores
 - d. carnivores
- _____ 10. Which of the following types of heterotrophs eat other animals?
 - a. omnivores and carnivores
 - b. herbivores and omnivores
 - c. carnivores only
 - d. carnivores and herbivores

- _____ 11. What are organisms that feed on plant and animal remains and other dead matter called?
a. decomposers c. detritivores
b. omnivores d. herbivores
- _____ 12. Which of the following types of heterotrophs would bacteria and fungi be classified as?
a. detritivores c. carnivores
b. herbivores d. decomposers
- _____ 13. What is the one-way flow of energy in an ecosystem called?
a. a food chain c. a food web
b. an energy pyramid d. a biomass pyramid
- _____ 14. What links all the food chains in an ecosystem together?
a. trophic levels c. a food web
b. an energy pyramid d. a biomass pyramid
- _____ 15. What is each step in a food chain or food web called?
a. a trophic level c. an ecological pyramid
b. a biomass d. a limiting level
- _____ 16. What pyramid represents the amount of energy or matter that exists in each level of a food web?
a. a food pyramid c. an ecosystem pyramid
b. an ecological pyramid d. a food web pyramid
- _____ 17. What is the total amount of living tissue within a given trophic level called?
a. biomass c. biome
b. limiting nutrient d. nutrient

Completion *On the lines provided, complete the following sentences.*

18. Molecules are passed around again and again within the biosphere in _____ cycles.
19. The process by which water changes from liquid form to an atmospheric gas is called _____.
20. During _____, water enters the atmosphere by evaporating from the leaves of plants.
21. A chemical substance that an organism requires to live is called a(an) _____.
22. The conversion of atmospheric nitrogen into ammonia is a process called _____.
23. The conversion of nitrates into nitrogen gas is called _____.
24. The rate at which organic matter is created by producers or consumers is called _____.
25. A nutrient that is scarce or cycles slowly through an ecosystem is called a(an) _____.